



Choose certainty.  
Add value.

## Water Services – Desalination

Ensure quality, reliability and efficiency of water systems throughout the water lifecycle.



### Your challenges

Global demand for water is projected to exceed supply by 40 per cent by 2030. As desalination will be a key source for clean water, desalination plants will be an integral component of water infrastructure all over the world. Differing technologies and fields of application create issues in terms of optimal integration and operation. Rising demand, cost and environmental awareness are driving the need for improved efficiency and sustainability. At the same time, the increasing complexity of projects generates new challenges across the entire plant lifecycle, from planning and construction up to operation and deconstruction phases. Financiers, investors, technology providers, owners and operators of desalination plants need to address these challenges and manage the corresponding risks.

### What water desalination services does TÜV SÜD provide?

TÜV SÜD ensures transparency and quality of desalination projects from the early planning phases

through construction and commissioning up to daily operation. We provide services for system stability and efficiency, as well as safety, tailored to the client's individual technical and quality requirements.

### Why are these services important to you?

As a desalination plant stakeholder, you will benefit from independent third-party expertise to help address national and international requirements for quality and safety. We ensure high precision and quality project execution, and smooth plant operation. We keep you abreast of the latest technical standards, address interoperability issues when integrating latest technologies and support you in managing potential risks.

### How can we help you?

TÜV SÜD has the global network and technical expertise to enable stakeholders to achieve safe and operational excellence of desalination plants with innovative and high-quality concepts during planning, construction, implementation and operation.



## Our water desalination services

TÜV SÜD is a trusted and reliable partner for water desalination stakeholders, providing the following advisory and solutions.

- **Third-party technical advisory services**  
Our experts can provide support from the early planning stages with proof of concept, assessment of demand and supply network analysis. We provide knowledge-based services on the latest technologies and help you apply the appropriate solutions for your challenges. Based on user requirement specifications (URS), our tailored services incorporate renewable energy sources and energy-efficient solutions.
- **Design review and design qualification**  
TÜV SÜD performs technical due diligence for your project, including testing of functionality, durability, efficiency and security of supply. Our services also cover temporal feasibility (critical path), as-is analysis, cost and risk analysis, and supplier due diligence.
- **Quality assurance and quality control**  
During construction, critical situations or conflicts, our experts perform installation qualification, provide health, safety and environment management (HSE) support, and take all safety and security aspects into account. We maintain pre-/post-shipment inspections and provide solutions for fire protection and cost controlling.
- **Final acceptance of construction**  
We support clients during commissioning and final quality assessment of their construction and installations. Our experts evaluate operation and maintenance manuals, and assess actual functionality and efficiency in operation.

## Your business benefits

- **Achieve transparency** – by partnering with TÜV SÜD, an independent, impartial provider of complete solutions.

- **Minimise risk** – with our support in developing concepts to maximise system stability and helping you to avoid obsolete or unfit technologies, components and maintenance procedures.
- **Save time and money** – by applying our expert services tailored to your specific needs during the early planning phases, helping you to speed up approval processes and avoid costly revisions.
- **Gain a competitive edge** – with our global expertise, which helps you find the best solutions to increase your plant’s energy efficiency, environmental performance and overall competitiveness.

## Why choose TÜV SÜD?

TÜV SÜD is an independent and impartial service provider. We help you strengthen confidence in solutions based on new technologies. Our end-to-end interdisciplinary consultancy supports our clients across all phases of development, from planning right through to final safety assessment.

We support our clients to manage risks when making decisions with regard to complex integrated projects in early project phases, and support and safeguard against possible liabilities and losses throughout the value chain. By combining our international network of competencies with our local presence, we apply best practices to the unique requirements of projects in different locations.

## Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East and Asia. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

### Related services

TÜV SÜD provides the following related services:

- Civil engineering
- Energy efficiency
- Renewable energies
- Risk management and optimisation of water infrastructure
- Smart Water Grid Technologies